

ncar1 site visit

Purpose: Thought we were just visiting!

People: (for this and next 3 visits): Dan, Russ, SteveO

On site at 0845, discovered that 10m TRH wasn't working at all.

0928: Power test: (requires shutdown of DSM; restart with blue box; shutdown again)

13.6V @ 1.4A (varies a bit) -- note only 1 TRH

13.6V @ 1.36A (with only one TRH, add this back in for a total station consumption of 1.44A)

[I note that on my lab bench a fan took about 12V@0.03A.]

0950: lower mast

Had several TRH problems: 10m completely dead, 2m fan dirty. At one point, swapped TRHs to find that both wouldn't work. Ended up deciding to put "best" TRH (formerly at 2m) with "best" fan (the better of the 2 fans I brought out with me) at 10m. Had to replace fuse on Diamond interface panel (tested that it was dead). Used interface panel channel 11 (not being used) for "spare" fuse.

The old 10m had a destroyed fan (brass shavings everywhere; blade disconnected from shaft). I'm bringing this back to Boulder, though probably should be thrown out. The SHT module worked in the 2m housing, so left unchanged. However, with "new" fan (stolen from old 2m TRH), it still would not work. I opened up the Bulgin connector side but saw no obvious problems with the 232 converter board. Reassembled and then this sensor worked -- very mysterious. Decided it was good to leave this at 2m to make servicing easier in case it fails again. Would be a good idea to have a spare TRH housing here.

1100: mast up (all that TRH stuff took a while to diagnose/fix)

Initially, Licor didn't work due to me removing its ribbon connector on the interface panel to access the port 7 fuse. Reconnected about 1105.